



" HARNESSTOM Carotenoid and apocarotenoid research at the Gordon Conference in Ventura CA"

Carotenoids and apocarotenoids are important specialized metabolites in plants and particularly in tomato as they are key components associated to tomato fruit quality where they contribute to tomato flavor and color and also in the plant by mediating in responses and adaptation to the environment. Both type of compounds is the target of HARNESSTOM pre-breeding activities for increased fruit quality in workpackage 8 and may also provide avenues of insights for other workpackages like WP5 dealing with disease resistance and WP7 dealing with adaptation to climate change. In addition, carotenoids and related traits like fruit color have been the target of the citizen science and participative breeding activities of WP8.

HARNESSTOM was represented by CSIC (the Spanish National Agency for Research) researchers including the project coordinator Prof. Antonio Granell who chaired the session on Biochemistry and Enzymology and by Maria Lobato who presented her results on tomato fortification in antioxidant compounds derived from tomato carotenoids and apocarotenoids. Another HARNESSTOM institution, the Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA), was represented by Dr. Giovanni Giuliano who gave one of the keynote presentation of the Conference, based on his research on tomato carotenoids apocarotenoids, entitled "Apocarotenoid Biosynthesis Pathways and their Subcellular Compartmentation"

The prestigious Gordon Conference on Carotenoids took place from January 8 to January 13 2023 at its traditional location in Ventura and was an excellent opportunity for HARNESSTOM researchers to present and discuss the latest advances in carotenoid and apocarotenoid research with other researchers reaching out to those from different fields including nutritionist and health specialists.

The meeting in Ventura, as it is usually tradition for Gordon Research Conferences, fostered excellence by successfully gathering up to 100 top leading scientist in the Carotenoid and apocarotenoid field from over 30 different countries. The venue succeeded to facilitate interaction and open discussion among young and senior scientist on carotenoid new and unpublished research in a relaxed atmosphere and over a dense /packed program on 6 days and from 9:00 am to 9:00 pm.



Photo 1: Participants at the Gordon Research Conference





Carotenoids

Biology and Applications of Carotenoids, Retinoids and Other Apocarotenoids

Gordon Research Conference

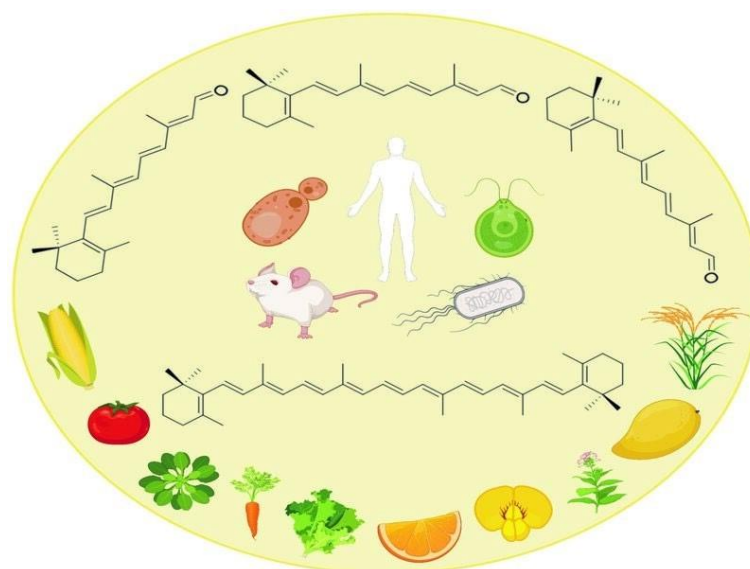
January 8 - 13, 2023

Ventura Beach Marriott, Ventura, California

Chairs: Loredana Quadro

Vice Chairs: Salim Al-Babili

- Row 1:** Eugenia Poliakov, Elizabeth Johnson, Nancy E. Moran, Claudia Stange, Manuel Rodriguez-Concepcion, Maria Lobato Gómez, Emalee Wrightstone, Sepalika Bandara, Shipra Vaishnava, Yasmeen Solano, Youn-Kyung Kim, Loredana Quadro, Salim Al-Babili, Eleanore Wurtzel, Johannes Von Lintig
- Row 2:** Sherry Tanumihardjo, Ana Arruabarrena, Juan Camilo Moreno Beltran, John Nolan, Manuel Llansola-Portoles, M Carmen Limon, Y Yang, Alexandra Dickinson, Li Li, John Royer, Gianfranco Diretto, Eugenia Enfissi, Carmen Maria Padilla Diaz
- Row 3:** Rocío Quián-Lullo, Marcus Moldenhauer, Niklas Steube, Salvador Torres Montilla, Linda Thomas, Emmanuel Kofi Addo, Jazmín Márquez, Wendy Ortega Salcido, Vidya Gopakumar, Arunkumar Ranganathan, Jaime Amengual, Joseph Hirschberg, Earl Harrison
- Row 4:** Xiang-Dong Wang, Walter Catalan Monroy, Elisabetta Madonna, Pooja Acharya, Igor Shmarakov, Philip Kiser, Giovanni Giuliano, Rachel Kopec, Malgorzata Rozanowska, Davina Rhodes, Ariel Leopard, Naiman Khan
- Row 5:** Anthony Miller, Casey Cheng, Libo Tan, Torbert Rocheford, Paul Bernstein, Dingbo Lin, Antonio Granell, Derry Alvarez, Maiko Furubayashi, Roberto Bassi, Abdulkerim Eroglu
- Row 6:** Anja Liszkay, Krishna Niyogi, Johan Andersen-Ranberg, Christopher Cazzonelli, NELSON DAVID ZAPATA, Abdugaffor Ablazov, Tal Makov, Petra Peters-Wendisch, Xiongjie Zheng
- Row 7:** Marc Simanowitz, Emilio Balbuena, Audrey Short, Madelyn Bradley, Gabrielle Meza, Alexander R. Moise, Antonio Melendez-Martinez, Sombir Rao, Xuesong Zhou, Martin Lohr



Link to the program and to the venue: <https://www.grc.org/carotenoids-conference/2023/>



Carotenoids

Gordon Research Conference

